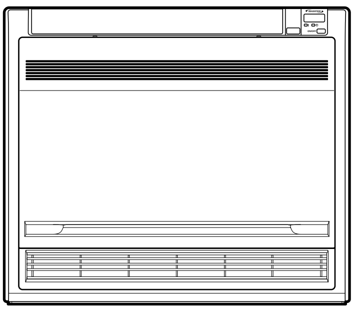
DAIKIN

INSTALLATION MANUAL

R410A Split Series

INVERTER



Models
FVXS25FV1B
FVXS35FV1B
FVXS50FV1B

Installation manual R410A Split series	**English**
Installationsanleitung Split-Baureihe R410A	**Deutsch**
Manuel d'installation Série split R410A	**Français**
Montagehandleiding R410A Split-systeem	**Nederlands**
Manual de instalación Serie Split R410A	**Español**
Manuale d'installazione Serie Multiambienti R410A	**Italiano**
Εγχειρίδιο εγκατάστασης διαιρούμενης σειράς R410A	**Ελληνικά**
Manual de Instalação Série split R410A	**Portugues**
Руководство по монтажу Серия R410A с раздельной установкой	**Русский**
Montaj kılavuzları R410A Split serisi	**Türkçe**

CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSERKLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING
CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DI-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ
CE - OPFYLDELSESERKLÆRING
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE
CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUUDESTA
CE - PROHLÁŠENÍ-O-SHODĚ
CE - IZJAVA-O-USKLAĐENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAŢIE-DE-CONFORMITATE
CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ
CE - ATITIKTIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁSENIE-ZHODY
CE - UYUMLULUK-BİLDİRİSİ

DAIKIN INDUSTRIES, LTD.

01 (GB) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (D) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:
03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (E) declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (I) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (GR) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
09 (RUS) заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:
10 (DK) erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:
11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
12 (N) erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon innebærer at:
13 (FIN) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:
14 (CZ) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:
15 (HR) izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 (H) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik:
17 (PL) deklaruje na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja:
18 (RO) declară pe proprie răspundere că aparatele de aer condiţionat la care se referă această declaraţie:
19 (SLO) z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:
20 (EST) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
21 (BG) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация:
22 (LT) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
23 (LV) ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklārācija:
24 (SK) vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
25 (TR) tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

FVXS25FV1B, FVXS35FV1B, FVXS50FV1B

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
06 sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:
09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:
12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at disse brukes i henhold til våre instrukser:
13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:
14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:
16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:
17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami:
18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiţia ca acestea să fie utilizate în conformitate cu instrucţiunile noastre
19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:
20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele:
21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции:
22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našim návodom:
25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur:

EN60335-2-40,

01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le prescrizioni per:
07 με τήρηση των διατάξεων των:
08 de acordo com o previsto em:
09 в соответствии с положениями:
10 under iagttagelse af bestemmelserne i:
11 enligt villkoren i:
12 gitt i henhold til bestemmelsene i:
13 noudattaen määräyksiä:
14 za dodržení ustanovení předpisu:
15 prema odredbama:
16 követi a(z):
17 zgodnie z postanowieniami Dyrektyw:
18 în urma prevederilor:
19 ob upoštevanju določb:
20 vastavalt nõuetele:
21 следвайки клаузите на:
22 laikantis nuostatų, pateikiamų:
23 ievērojot prasības, kas noteiktas:
24 održiavajúc ustanovenia:
25 bunun koşullarına uygun olarak:

Low Voltage 2006/95/EC
Electromagnetic Compatibility 2004/108/EC *

01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals geamendeerd.
05 Directivas, según lo enmendado.
06 Direttive, come da modifica.
07 Οδηγιών, όπως έχουν τροποποιηθεί.
08 Directivas, conforme alteração em.
09 Директив со всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med företagna ändringar.
12 Direktiver, med foretatte endringer.
13 Direktiivejä, sellaisina kuin ne ovat muutettuina.
14 v platném znění.
15 Smjernice, kako je izmijenjeno.
16 irányelv(ek) és módosításaik rendelkezéseit.
17 z późniejszymi poprawkami.
18 Directivelor, cu amendamentele respective.
19 Direktive z vsemi spremembami.
20 Direktiivid koos muudatustega.
21 Директиви, с техните изменения.
22 Direktyvose su papildymais.
23 Direktīvās un to papildinājumos.
24 Smernice, v platnom znení.
25 Değiştirilmiş halleriyle Yönetmelikler.

01 **Note** * as set out in <A> and judged positively by <B> according to the **Certificate** <C>.
02 **Hinweis** * wie in der <A> aufgeführt und von <B> positiv beurteilt gemäß **Zertifikat** <C>.
03 **Remarque** * tel que défini dans <A> et évalué positivement par <B> conformément au **Certificat** <C>.
04 **Bemerk** * zoals vermeld in <A> en positief beoordeeld door <B> overeenkomstig **Certificaat** <C>.
05 **Nota** * como se establece en <A> y es valorado positivamente por <B> de acuerdo con el **Certificado** <C>.
06 **Nota** * delineato nel <A> e giudicato positivamente da <B> secondo il **Certificato** <C>.
07 **Σημείωση** * όπως καθορίζεται στο <A> και κρίνεται θετικά από το <B> σύμφωνα με το **Πιστοποιητικό** <C>.
08 **Nota** * tal como estabelecido em <A> e com o parecer positivo de <B> de acordo com o **Certificado** <C>.
09 **Примечание** * как указано в <A> и в соответствии с положительным решением <B> согласно **Свидетельству** <C>.
10 **Bemærk** * som anført i <A> og positivt vurderet af <B> i henhold til **Certifikat** <C>.
11 **Information** * enligt <A> och godkänts av <B> enligt **Certifikatet** <C>.
12 **Merk** * som det fremkommer i <A> og gjennom positiv bedømmelse av <B> ifølge **Sertifikat** <C>.
13 **Huom** * jotka on esitetty asiakirjassa <A> ja jotka <B> on hyväksynyt **Sertifikaatin** <C> mukaisesti.
14 **Poznámka** * jak bylo uvedeno v <A> a pozitivně zjištěno <B> v souladu s **osvědčením** <C>.
15 **Napomena** * kako je izloženo u <A> i pozitivno ocijenjeno od strane <B> prema **Certifikatu** <C>.
16 **Megjegyzés** * a(z) <A> alapján, a(z) <B> igazolta a megfelelést, a(z) <C> **tanúsítvány** szerint.
17 **Uwaga** * zgodnie z dokumentacją <A>, pozytywną opinią <B> i **Świadectwem** <C>.
18 **Notă** * aşa cum este stabilit în <A> şi apreciat pozitiv de <B> în conformitate cu **Certificatul** <C>.
19 **Opomba** * kot je določeno v <A> in odobreno s strani <B> v skladu s **certifikatom** <C>.
20 **Märkus** * nagu on näidatud dokumendis <A> ja heaks kiidetud <B> järgi vastavalt **sertifikaadile** <C>.
21 **Забележка** * както е изложено в <A> и оценено положително от <B> съгласно **Сертификата** <C>.
22 **Pastaba** * kaip nustatyta <A> ir kaip teigiamai nuspręsta <B> pagal **Sertifikatą** <C>.
23 **Piezīmes** * kā norādīts <A> un atbilstoši <B> pozitīvajam vērtējumam saskaņā ar **sertifikātu** <C>.
24 **Poznámka** * ako bolo uvedené v <A> a pozitívne zistené <B> v súlade s **osvedčením** <C>.
25 **Not** * <A>'da belirtildiği gibi ve <C> **Sertifikasına** göre <B> tarafından olumlu olarak değerlendirildiği gibi.

<A>	DAIKIN.TCF.015 K1/07-2007
<B>	KEMA Quality B.V.
<C>	74736-KRQ/EMC97-4957

DAIKIN

Shinri Sada

Shinri Sada
Manager Quality Control Department
1st. of Nov. 2008

DAIKIN INDUSTRIES, LTD.
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Kita-ku, Osaka, 530-8323 Japan

3SB64418-7A

Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into WARNING and CAUTION.
  Be sure to follow all the precautions below: they are all important for ensuring safety.

⚠ **WARNING..............Failure to follow any of WARNING is likely to result in such grave consequences as death or serious injury.**

⚠ **CAUTION..............Failure to follow any of CAUTION may result in grave consequences in some cases.**

- The following safety symbols are used throughout this manual:

Be sure to observe this instruction.	Be sure to establish an earth connection.	Never attempt.

- After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

⚠ WARNING	
• Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.	
• Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.	
• Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.	
• Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.	
• Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire.	
• Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.	
• For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock or fire.)	
• Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.	
• After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.	
• If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)	!
• After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)	!
• When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)	
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.	
• During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the stop valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.	
• Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.	(earth)
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.	

⚠ CAUTION	
• Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.	⃠
• Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.	
• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.	

Accessories

Indoor unit Ⓐ – Ⓘ

Ⓐ Mounting plate	1	Ⓓ Insulation sheet	2	Ⓖ AAA dry-cell batteries	2
Ⓑ Titanium Apatite Photocatalytic Air-Purifying Filter	2	Ⓔ Wireless remote controller	1	Ⓗ Operation manual	1
Ⓒ Drain hose	1	Ⓕ Remote controller holder	1	Ⓘ Installation manual	1

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

1. Indoor unit

• The indoor unit should be sited in a place where:

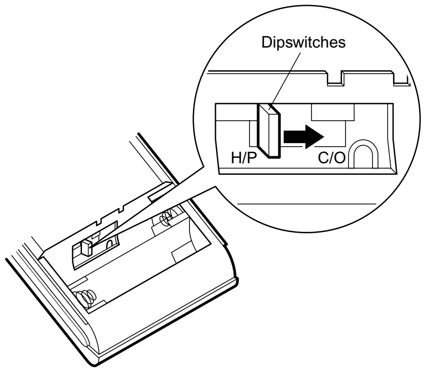
1) the restrictions on installation specified in the indoor unit installation drawings are met,
2) both air intake and exhaust have clear paths met,
3) the unit is not in the path of direct sunlight,
4) the unit is away from the source of heat or steam,
5) there is no source of machine oil vapour (this may shorten indoor unit life),
6) cool (warm) air is circulated throughout the room,
7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
8) the unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound).

2. Wireless remote controller

1) Turn on all fluorescent lamps in the room, if any, and find site where remote controller signals are properly received by the indoor unit (within 7m).
2) Make the dipswitch settings. Set according to the type of unit purchased by the customer. The default settings are on the heat pump side.

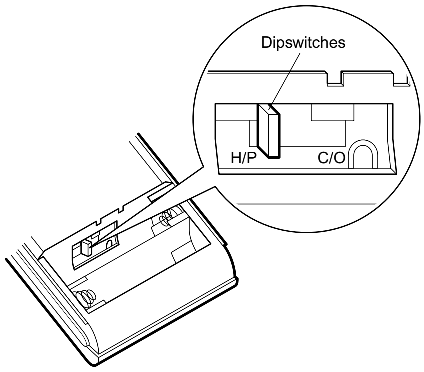
• **For cooling only**

Set the dipswitches on the cooling only side.



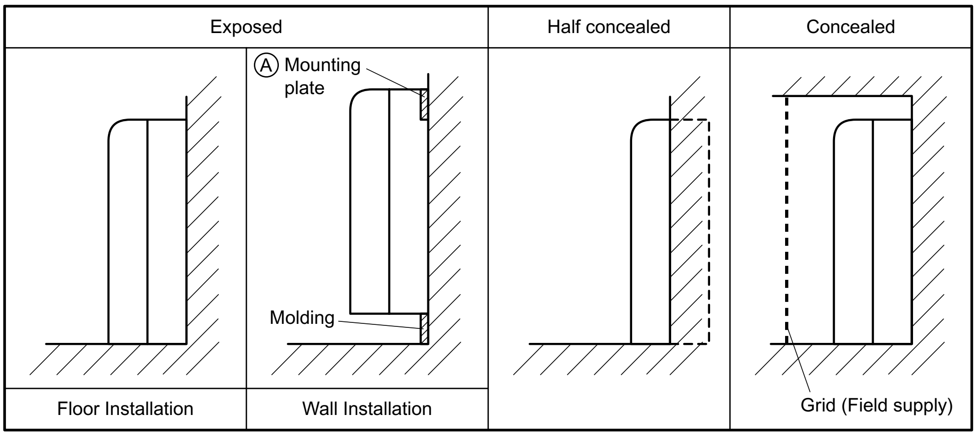
• **For heat pump**

Check that the dipswitches are on the heat pump side.
If they are set on the cooling only side, move them to the heat pump side.

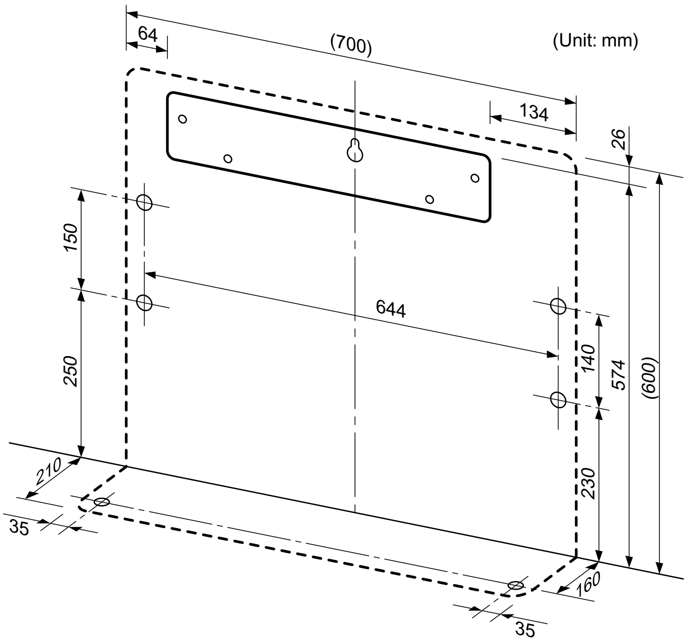


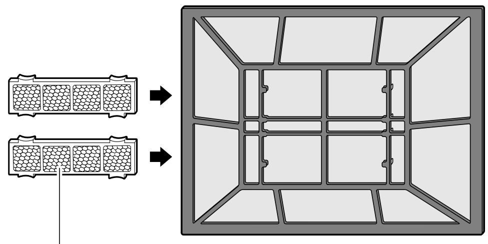
Indoor Unit Installation Drawings

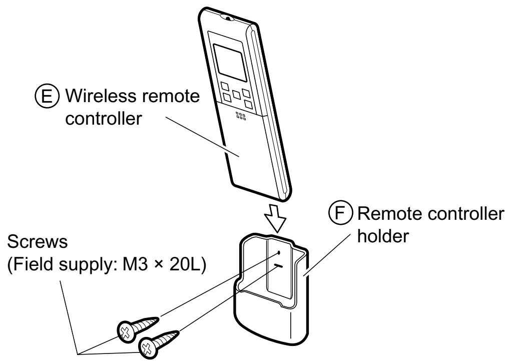
The indoor unit may be mounted in any of the three styles shown here.

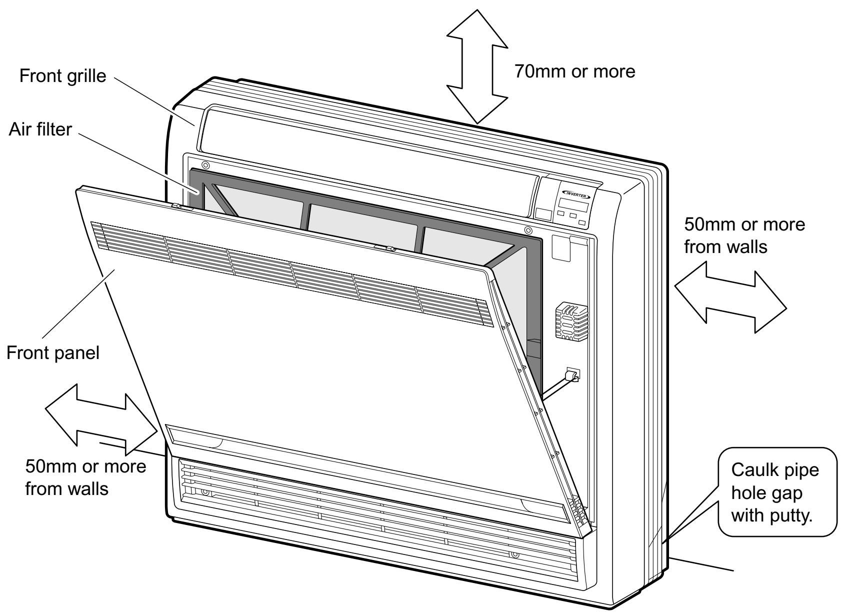


Location for securing the installation panel.





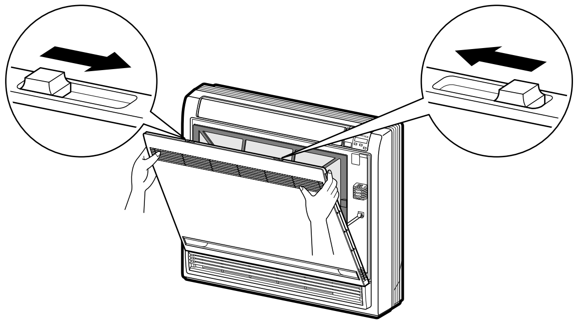




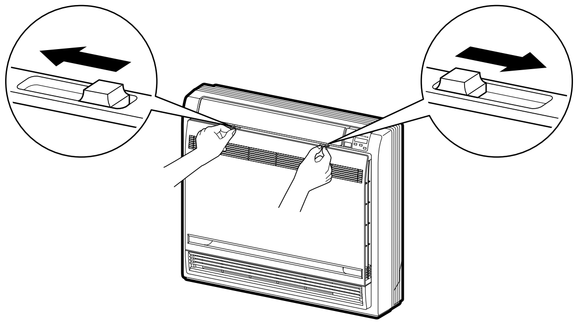
Installation Tips

1. Removing and installing front panel

- **Removal method**
  1) Slide until the 2 stoppers click into place.
  2) Open the front panel forward and undo the string.
  3) Remove the front panel.

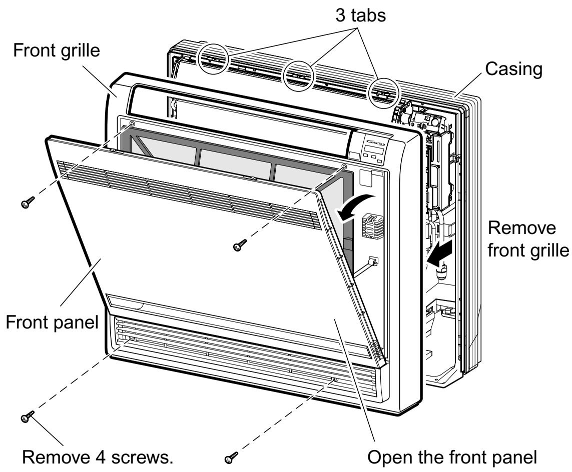


- **Installation method**
  1) Attach the front grille and front panel after pulling the string around them.
  2) Close the front panel and slide until the stoppers click outside.



2. Removing and installing front grille

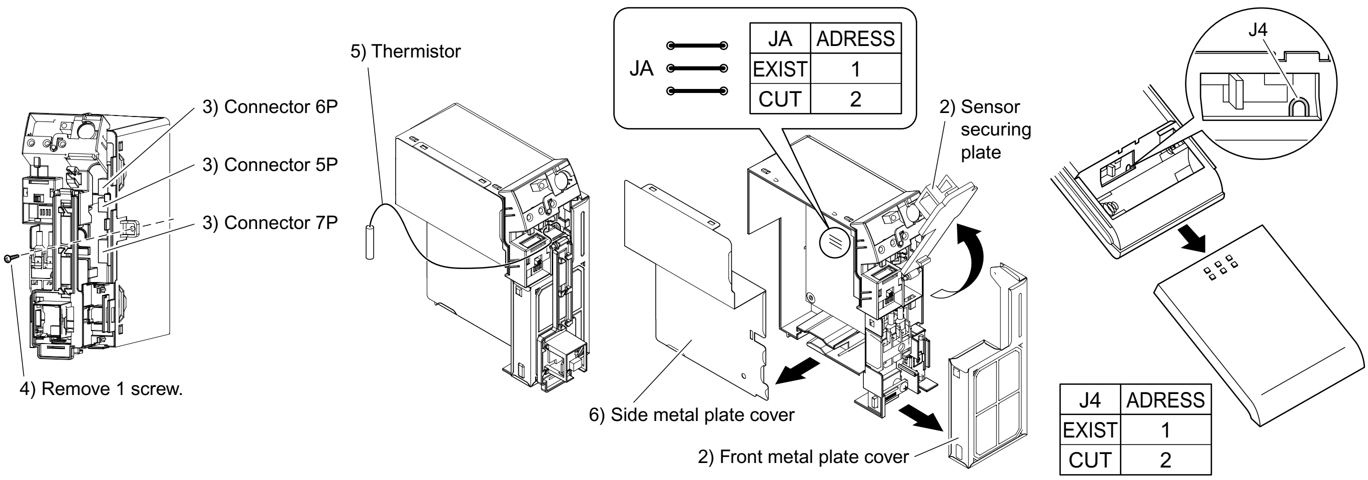
- **Removal method**
  1) Open the front panel.
  2) Remove the 4 screws and remove the front grille while pulling it forward (3 tabs).
- **Installation method**
  1) Secure the front grille with the 4 installation screws (3 tabs).
  2) Return the front panel to the original position.



3. How to set the different addresses

When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

1) Remove the front grille.
2) Live the sensor securing plate and remove the front metal plate cover.
3) Remove connectors 5P, 6P, and 7P.
4) Remove the electric box (1 screw).
5) Remove the thermistor.
6) Remove the side metal plate cover (7 tabs).
7) Cut the address jumper (JA) on the printed circuit board.
8) Cut the address jumper (J4) in the remote controller.



JA	ADRESS
EXIST	1
CUT	2

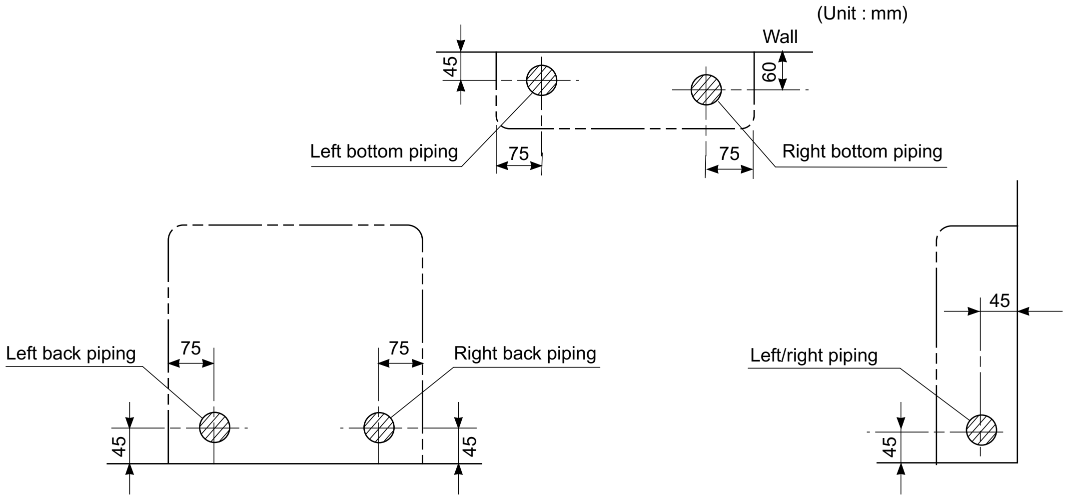
J4	ADRESS
EXIST	1
CUT	2

Indoor Unit Installation (1)

Exposed installation

1. Refrigerant piping

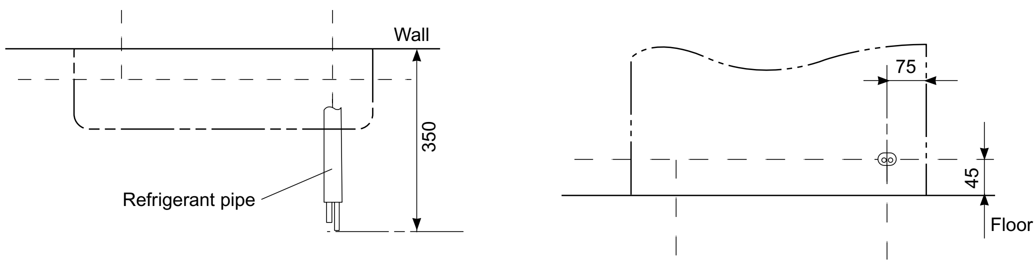
1) Drill a hole (65mm in diameter) in the spot indicated by the symbol in the illustration as below.
2) The location of the hole is different depending on which side of the pipe is taken out.
3) For piping, see **6. Connecting the refrigerant pipe**, under **Indoor Unit Installation (1)**.
4) Allow space around the pipe for a easier indoor unit pipe connection.



⚠ CAUTION

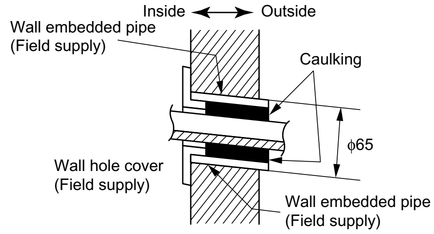
Min. allowable length

- The suggested shortest pipe length is 2.5m, in order to avoid noise from the outdoor unit and vibration. (Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)
- See the installation manual for the outdoor unit for the maximum pipe length.
- For multi-connections, see the installation manual for the multi-outdoor unit.



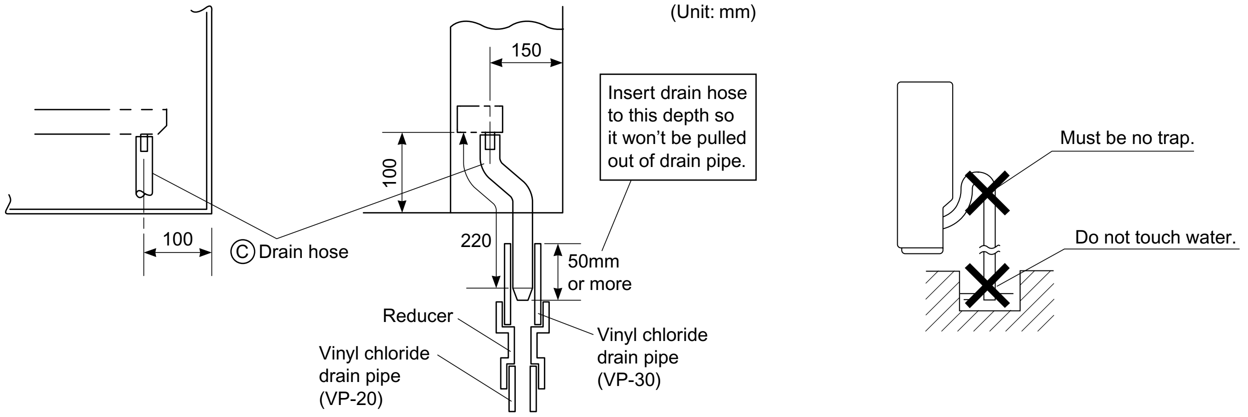
2. Boring a wall hole and installing wall embedded pipe

- For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.
- Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
  1) Bore a feed-through hole of 65mm in the wall so it has a down slope toward the outside.
  2) Insert a wall pipe into the hole.
  3) Insert a wall cover into wall pipe.
  4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.



3. Drain piping

1) Use commercial rigid polyvinyl chloride pipe (general VP 20 pipe, outer diameter 26mm, inner diameter 20mm) for the drain pipe.
2) The drain hose (outer diameter 18mm at connecting end, 220mm long) is supplied with the indoor unit. Prepare the drain pipe picture below position.
3) The drain pipe should be **inclined downward** so that water will flow smoothly without any accumulation. (Should not be trap.)
4) Insert the drain hose to this depth so it won't be pulled out of the drain pipe.
5) **Insulate the indoor drain pipe with 10mm or more of insulation material to prevent condensation.**
6) Remove the air filters and pour some water into the drain pan to check the water flows smoothly.



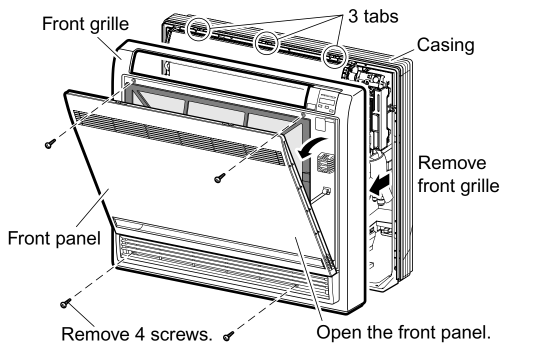
⚠ CAUTION

Use polyvinyl chloride adhesive agent for gluing. Failure to do so may cause water leakage.

4. Installing indoor unit

4-1. Preparation

- Open the front panel, remove the 4 screws and dismount the front grille while pulling it forward.
- Follow the procedure below when removing the slit portions.

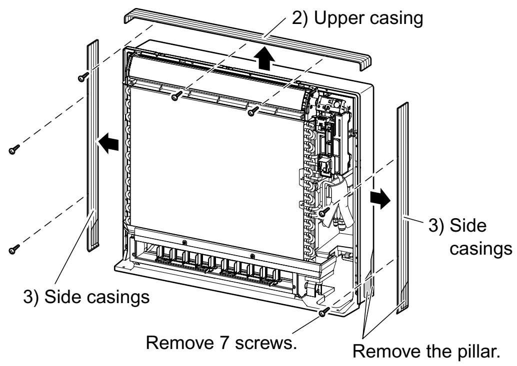


■ For Moldings

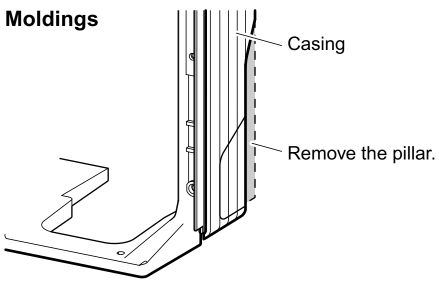
- Remove the pillars. (Remove the slit portions on the bottom frame using nippers.)

■ For Side Piping

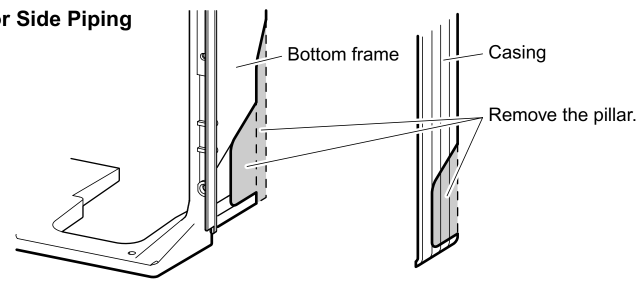
- Remove the pillars.
  1) Remove the 7 screws.
  2) Remove the upper casing (2 tabs).
  3) Remove the left and right casings (2 tabs on each side).
  4) Remove the slit portions on the bottom frame and casings using nippers.
  5) Return by following the steps in reverse order (3 > 2 > 1).



For Moldings



For Side Piping

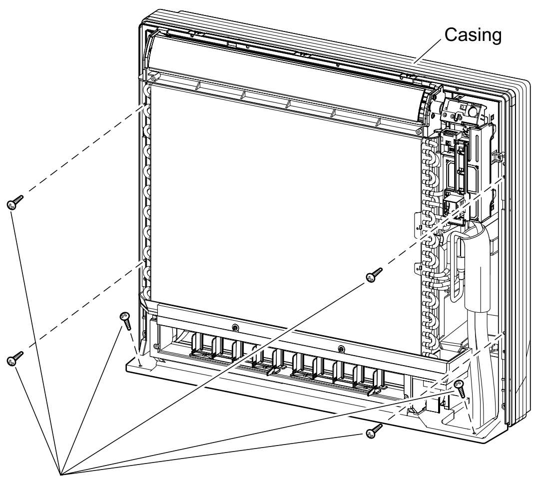


Indoor Unit Installation (1)

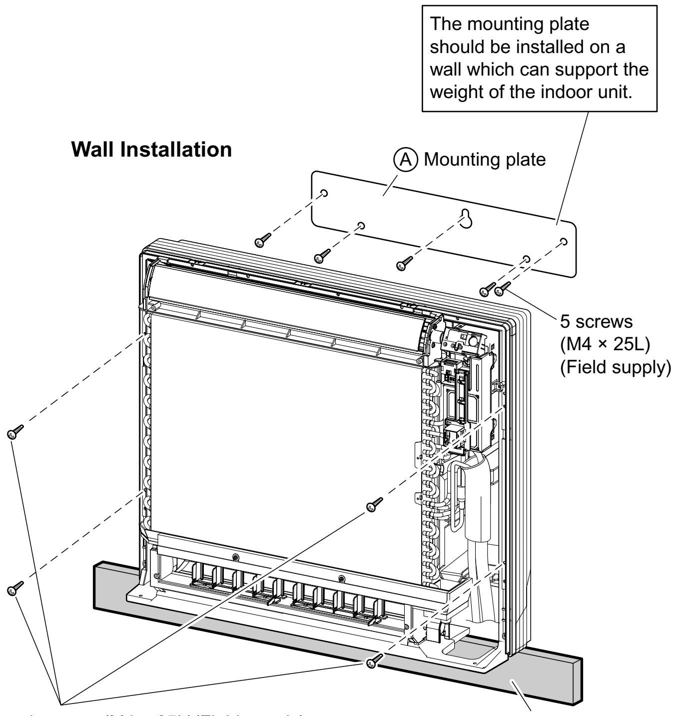
4-2. Installation

- Secure using 6 screws for floor installations. (Do not forget to secure to the rear wall.)
- For wall installations, secure the Ⓐ mounting plate using 5 screws and the indoor unit using 4 screws.
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
  1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
  2) Secure the mounting plate to the wall with screws.

Floor Installation



Wall Installation



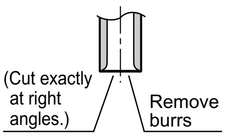
3) Once refrigerant piping and drain piping connections are complete, fill in the gap of the through hole with putty.
   A gap can lead to condensation on the refrigerant pipe, and drain pipe, and the entry of insects into the pipes.
4) Attach the front panel and front grille in their original positions once all connections are complete.

5. Flaring the pipe end

1) Cut the pipe end with a pipe cutter.
2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
3) Fit the flare nut on the pipe.
4) Flare the pipe.
5) Check that the flaring is properly made.

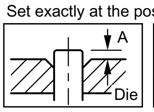
⚠ WARNING

1) Do not use mineral oil on flared part.
2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
4) Do never install a drier to this R410A unit in order to guarantee its lifetime.
5) The drying material may dissolve and damage the system.
6) Incomplete flaring may cause refrigerant gas leakage.

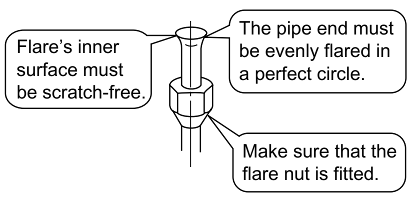


Flaring

Set exactly at the position shown below.



	Flare tool for R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm

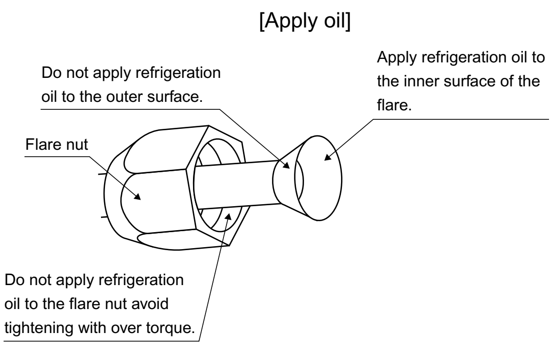


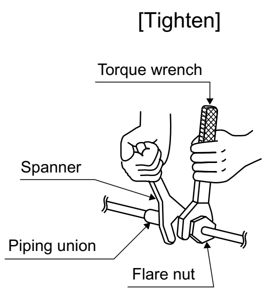
6. Connecting the refrigerant pipe

⚠ CAUTION

1) Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
2) To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
3) Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.

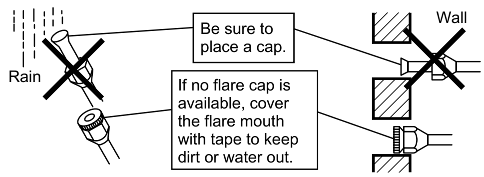




Flare nut tightening torque		
Gas side		Liquid side
25/35 class	50 class	25/35/50 class
3/8 inch	1/2 inch	1/4 inch
32.7-39.9N·m (333-407kgf·cm)	49.5-60.3N·m (505-615kgf·cm)	14.2-17.2N·m (144-175kgf·cm)

6-1. Caution on piping handling

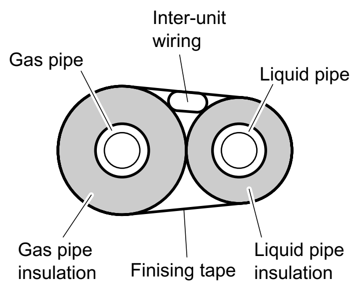
1) Protect the open end of the pipe against dust and moisture.
2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.



6-2. Selection of copper and heat insulation materials

- When using commercial copper pipes and fittings, observe the following:

1) Insulation material: Polyethylene foam
   Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/(mh°C))
   Refrigerant gas pipe's surface temperature reaches 110°C max.
   Choose heat insulation materials that will withstand this temperature.



2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

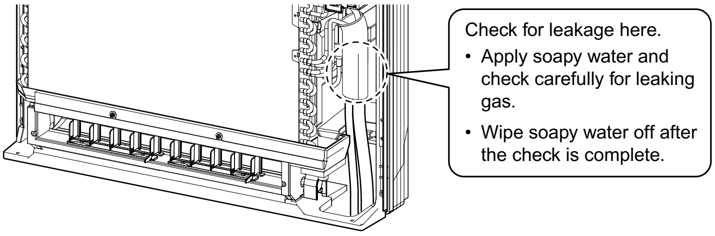
Gas side		Liquid side	Gas pipe thermal insulation		Liquid pipe thermal insulation
25/35 class	50 class		25/35 class	50 class	
O.D. 9.5mm	O.D. 12.7mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 14-16mm	I.D. 8-10mm
Minimum bend radius			Thickness 10mm Min.		
30mm or more	40mm or more	30mm or more			
Thickness 0.8mm (C1220T-O)					

3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

Indoor Unit Installation (1)

7. Checking for gas leakage

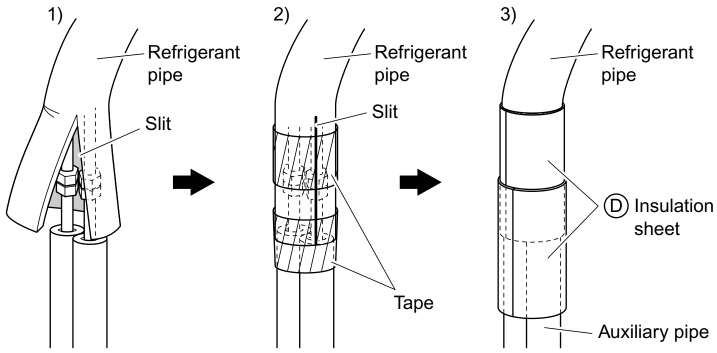
1) Check for leakage of gas after air purging.
2) See the sections on air purges and gas leak checks in the installation manual for the outdoor unit.



8. Attaching the connection pipe

- Attach the pipe after checking for gas leakage, described above.

1) Cut the insulated portion of the on-site piping, matching it up with the connecting portion.
2) Secure the slit on the refrigerant piping side with the butt joint on the auxiliary piping using the tape, making sure there are no gaps.
3) Wrap the slit and the butt joint with the included Ⓓ insulation sheet, making sure there are no gaps.

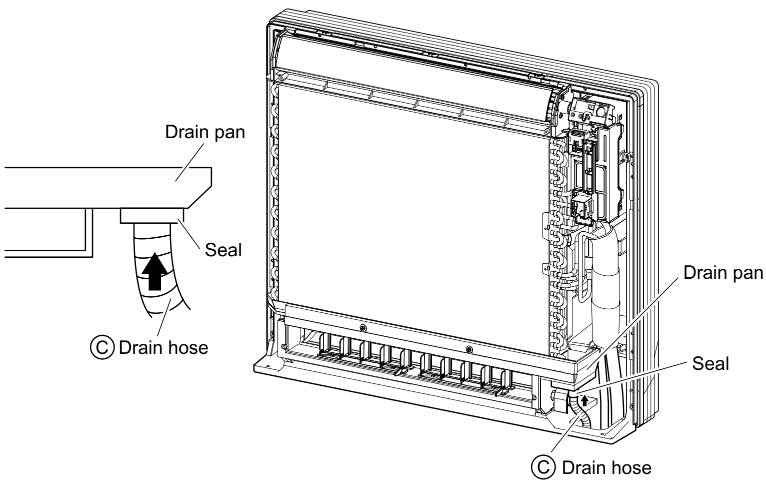


⚠ CAUTION

1) **Insulate the joint of the pipes securely.**
   Incomplete insulation may lead to water leakage.
2) **Push the pipe inside so it does not place undue force on the front grille.**

9. Connecting the drain hose

Insert the supplied Ⓒ drain hose into the socket of the drain pan.
Fully insert the drain hose until it adheres to a seal of the socket.

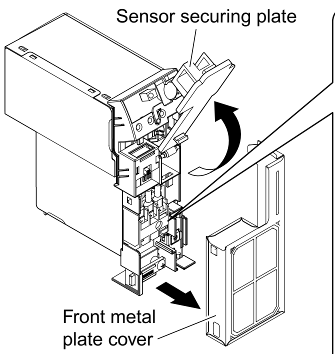


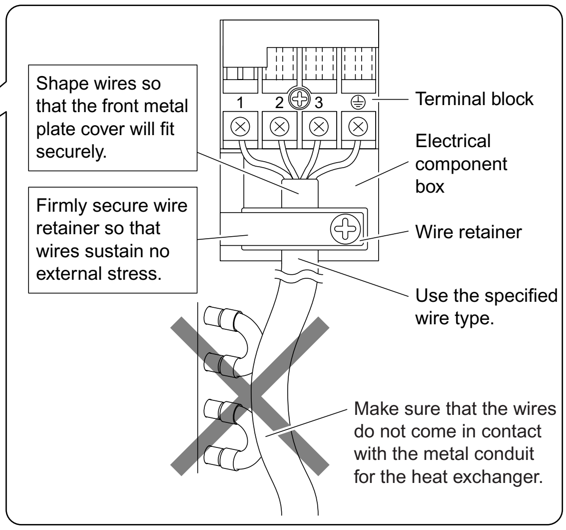
10. Wiring

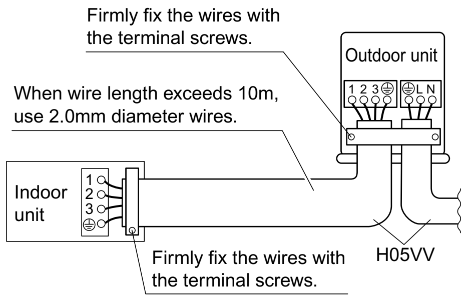
With a Multi indoor unit , install as described in the installation manual supplied with the Multi outdoor unit.

- Live the sensor securing plate, remove the front metal plate cover, and connect the branch wiring to the terminal block.

1) Strip wire ends (15mm).
2) Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals.
3) Connect the earth wires to the corresponding terminals.
4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
5) Make sure that the wires do not come in contact with the metal conduit for the heat exchanger.
6) In case of connecting to an adapter system. Run the remote controller cable and attach the S21. (Refer to **11. When connecting to an HA system**.)





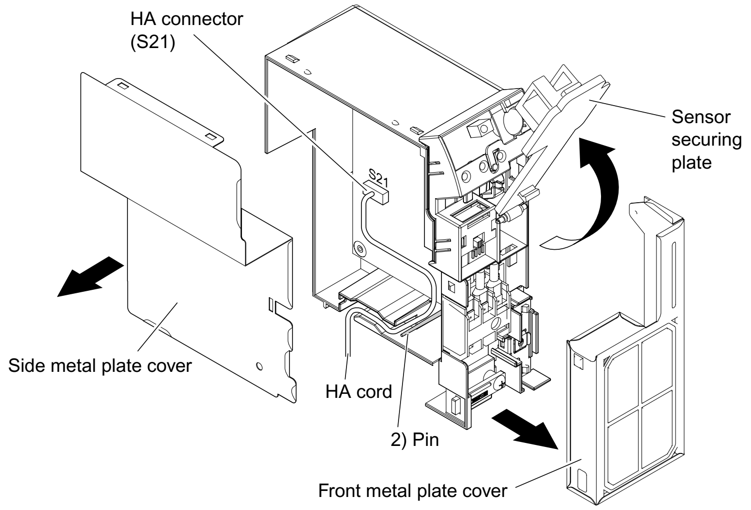


⚠ WARNING

1) Do not use tapped wires, stranded wires, extensioncords, or starburst connections, as they may cause overheating, electrical shock, or fire.
2) **Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.**

11. When connecting to an HA system

1) Remove the electric box. (See **3. How to set the different addresses** on page 4.)
2) Cut off the pins using a nipper.
3) Wire as shown in the diagram and connect the connection cord to the S21 connector.
4) Attach the side metal plate cover and thermistor sensor and return the electric box to its previous state.
5) Attach connectors 5P, 6P, and 7P.
6) Replace the front metal plate cover and the sensor securing plate.



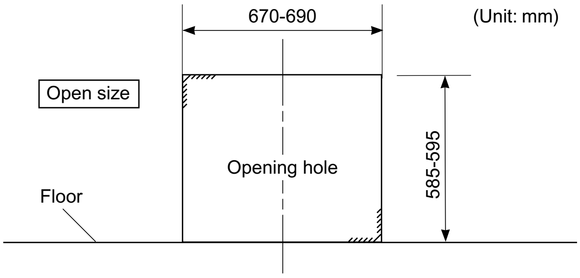
Indoor Unit Installation (2)

Half concealed installation

Only items peculiar to this installation method are given here. See **Exposed Installation** for additional instructions.

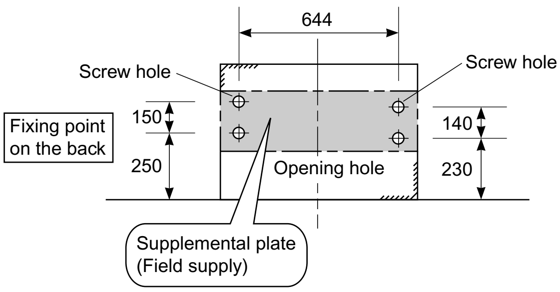
1. Wall hole

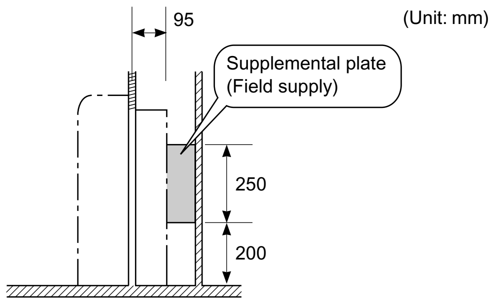
- Drill a wall hole of the size shown in the illustration on the right.



2. Installation of supplemental plate for attaching main unit

- The rear of the unit can be fixed with screws at the points shown in the illustration as below. Be sure to install the supplemental plate in accordance with the depth of the inner wall.



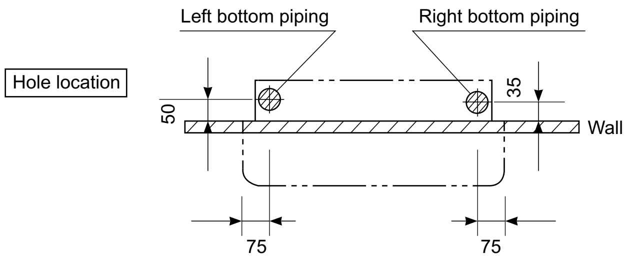


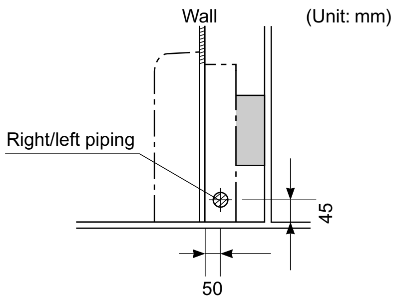
⚠ CAUTION

1) The supplemental plate for installing the main unit must be used, or there will be a gap between the unit and the wall.

3. Refrigerant piping

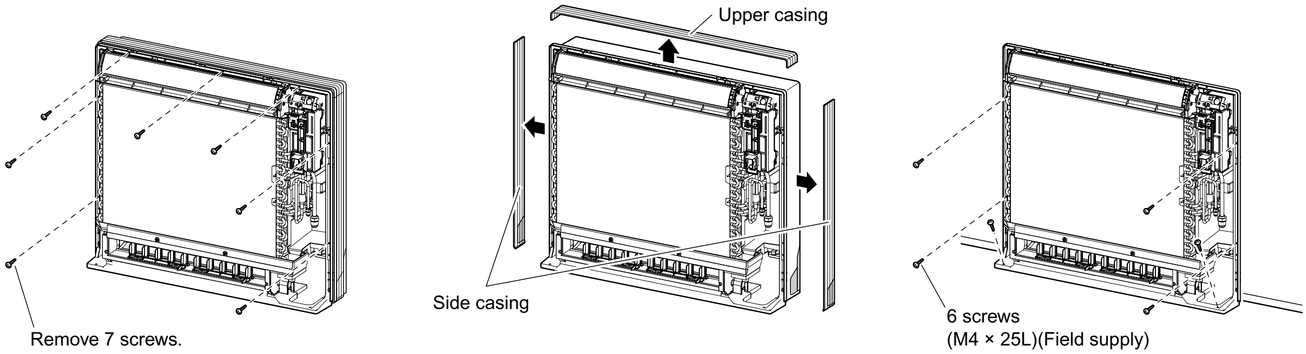
See **1. Refrigerant piping** under **Indoor Unit Installation (1)**





4. Installing indoor unit

1) Remove the front grille.
2) Remove 7 screws.
3) Remove the upper casing (2 tabs).
4) Remove the side casings (2 tabs on each side).
5) Attach the indoor unit to the wall and secure using screws in 6 locations (M4 × 25L).



⚠ CAUTION

1) **Use drain pan edge for horizontal projection of the indoor unit.**
2) **Install the indoor unit flush against wall.**

NOTE:
For **refrigerant piping, Boring a wall hole and installing wall embedded pipe, drain piping, installing indoor unit, flaring the pipe end, connecting the refrigerant pipe, checking for gas leakage, attaching the connection pipe, connecting the drain hose, wiring, when connecting to an HA system,** see **Exposed Installation**.

Indoor Unit Installation (3)

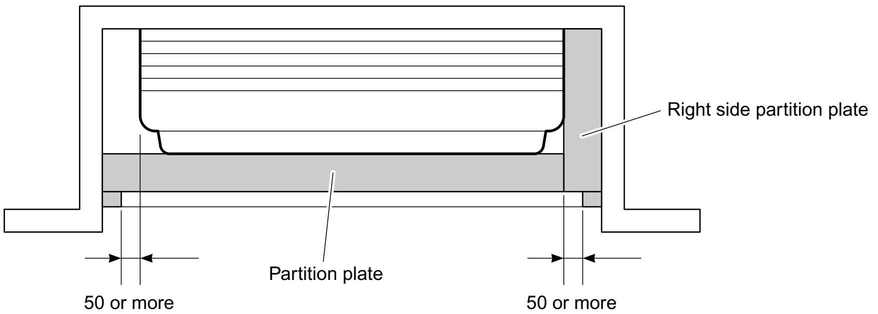
Concealed installation

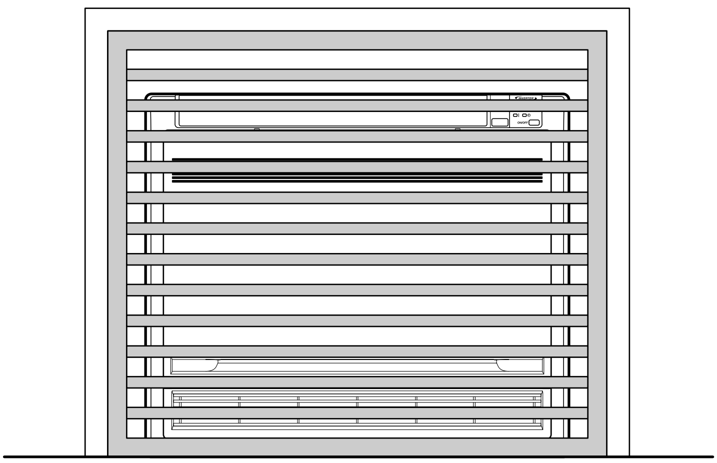
Only items peculiar to this installation method are given here. See **Exposed Installation** for additional instructions.

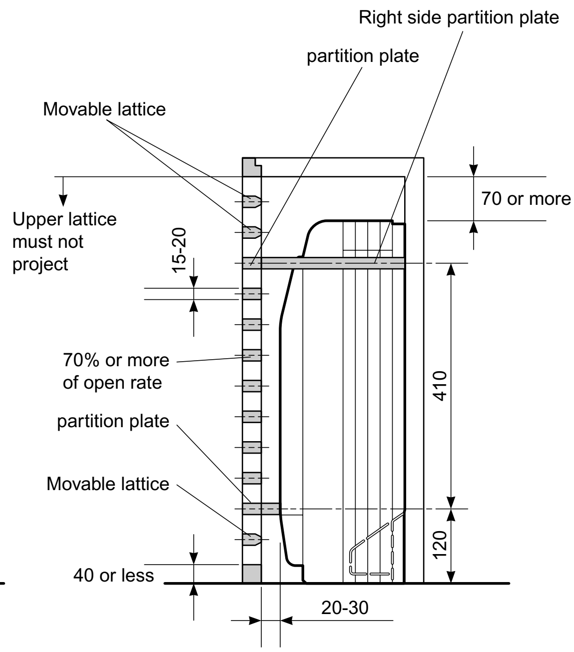
Install the unit according to the instructions below. Failure to do so may cause lead to both cooling and heating failure and the condensation inside the house.

1) Allow enough space between the main unit and ceiling not to obstruct the flow of cool/warm air.
2) Place a partition plate between outlet and inlet sections.
3) Place a partition plate on the right side.
4) Change the upward-blow limit switch.
5) Use a movable lattice at the air outlet to allow the adjustment of cool/warm air flow direction.
6) Lattice size should be 70% or more of open rate.

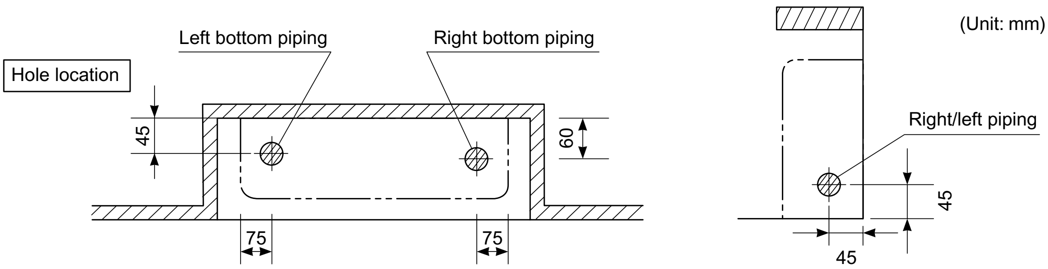
(Unit: mm)







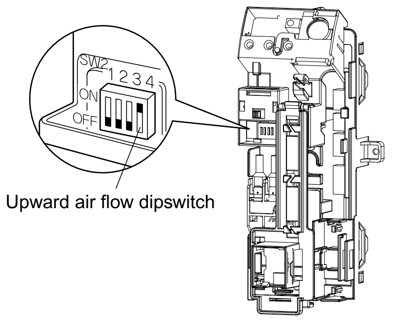
1. Refrigerant piping



2. Changing upward air flow dipswitch

Change the upward air flow dipswitch (SW2-4) to ON to limit the upward air flow.

1) Remove the front grille.
2) Switch the dipswitch (SW2-4) on the PCB in the electrical equipment box to ON.



• How to set and use the switch

Switch number	SW2-4
Set function	Upward air flow limit
ON ↕ OFF	ON ↕ OFF
Use	Switch to on for embedded units
Factory setting	OFF

⚠ CAUTION

Be sure to turn on the upward air flow switch. Failure to do so may cause incomplete cooling/heating and formation of condensation inside the house.

NOTE:
For **refrigerant piping, Boring a wall hole and installing wall embedded pipe, drain piping, installing indoor unit, flaring the pipe end, connecting the refrigerant pipe, checking for gas leakage, attaching the connection pipe, connecting the drain hose, wiring, when connecting to an HA system,** see **Exposed Installation**.

Trial Operation and Testing

1. Trial operation and testing

1-1 Measure the supply voltage and make sure that it falls in the specified range.

1-2 Trial operation should be carried out in either cooling or heating mode.

■ For Heat pump

- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
  1) Trial operation may be disabled in either mode depending on the room temperature. Use the remote controller for trial operation as described below.
  2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
  3) For protection, the system disables restart operation for 3 minutes after it is turned off.

■ For Cooling only

- Select the lowest programmable temperature.
  1) Trial operation in cooling mode may be disabled depending on the room temperature. Use the remote controller for trial operation as described below.
  2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C).
  3) For protection, the unit disables restart operation for 3 minutes after it is turned off.

1-3 Carry out the test operation in accordance with the Operation Manual to ensure that all functions and parts, such as louver movement, are working properly.

- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

Trial Operation from Remote Controller

1) Press ON/OFF button to turn on the system.
2) Press TEMP (2 locations) and MODE at the same time.
3) Press MODE button twice.
   (“T” will appear on the display to indicate that Trial Operation mode is selected.)
4) Trial run mode terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press ON/OFF button.

2. Test items

Test Items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for inter-unit wiring connections.	Inoperative or burn damage	
Indoor or outdoor unit’s air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote controller commands.	Inoperative	

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